

12

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-335721  
(43)Date of publication of application : 07.12.1999

(51)Int.Cl. C21C 7/00  
C21C 7/10  
F27B 3/28

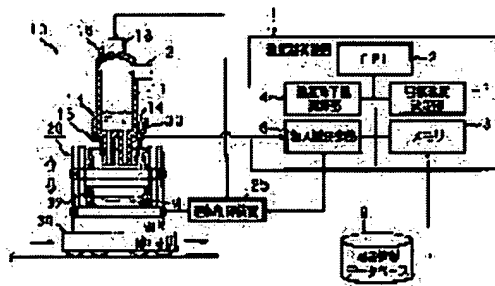
(21)Application number : 10-143529 (71)Applicant : SUMITOMO METAL IND LTD  
(22)Date of filing : 25.05.1998 (72)Inventor : MIZUTA MASAHIKO

## (54) METHOD FOR CONTROLLING TEMPERATURE OF MOLTEN METAL IN SECONDARY REFINING AND APPARATUS THEREFOR

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a control method of molten metal temp. in secondary refining which can supply the molten metal satisfying a required casting temp. into a casting apparatus even in the case of changing an operational schedule in a casting apparatus after completing a blow-refining, and the apparatus for using this processing.

**SOLUTION:** A charging quantity deciding part 6 reads in the actual temp. Tact given from a thermocouple 33 and judges whether an actual temp. Tact is higher than a prescribed temp. Tst.aim calculated based on the operational schedule in a casting apparatus or not. In the charging quantity deciding part 6, a calculating formula for calculating the charging quantity X of a coolant and the charging quantity Z of a heating-up agent is preset, and in the case of judging the actual temp. Tact at higher than a prescribed temp. Tst.aim, the charging quantity deciding part 6 is given to an operating control device 25 after obtaining the charging quantity X of the coolant by using the calculating formula to charge the coolant of the charging quantity X through a charging machine 18.



### LEGAL STATUS

[Date of request for examination] 01.08.2000  
[Date of sending the examiner's decision of rejection] 03.12.2002  
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]  
[Date of final disposal for application]  
[Patent number]

BEST AVAILABLE COPY

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

BEST AVAILABLE COPY